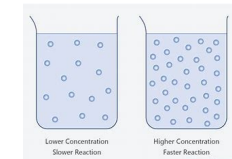




Separate Chemistry Key Stage 4 Overview

What is my Learning Journey for Year 10 and 11?



Exams:

-6 x 75 minute papers – 2 for biology, 2 for chemistry, 2 for physics
There is no coursework element.

Assessments:

-End of unit tests
--6 mark question practice for each unit

#realworldready

- Understanding about the elements that make up the world around us, how we can study and separate each of these elements and compounds.
- Looking at the history behind different scientific theories and understanding how these change over time.
- Topics look at how we can best look after the world around us and live more sustainably.
- Understand the importance of science to a wide variety of careers.

Useful websites and support

- GCSE bitesize
- GCSEpod
- Oak Academy
- Seneca
- Educake
- Savemyexams
- Physics and maths tutor

Home Learning

- Weekly interleaving quizzes and homework
- Other tasks may include:
 - 6 mark question practice for each unit
 - Past paper practice
 - Flipped learning tasks

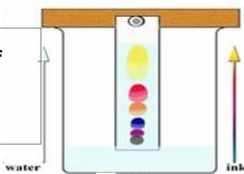
Content – Affect of catalyst, concentration, temperature on rate of reaction. Reversible reactions

C6 Rates



Content – Crude oil, Hydrocarbons and alkanes

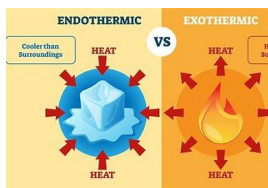
C7 Organic Chem



Content – Chromatography, Rf values, Pure substances and mixtures

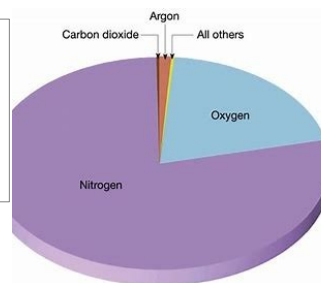
C8 Chem Analysis

Content – Endothermic and exothermic reactions, Reaction profiles



C5 Energy Changes

Content – Developing the atmosphere, Polluting the atmosphere



C9 Atmosphere

Content – Recycling, Water, Reducing use of resources, Finite and renewable resources



C10 Using Resources

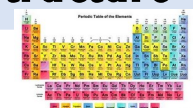
YEAR 11

Key Skills:

- Recall and retention of scientific facts
- Analysing and interpreting data
- Evaluating information

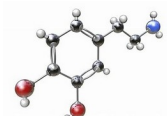
YEAR 10

Content – Periodic table, element, compound, atomic structure, groups of the periodic table



C1 Atomic Structure

Content – Three states of matter, Ionic bonding, Covalent bonding, Metals and alloys



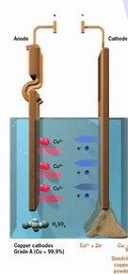
C2 Bonding

Content – Calculating formula mass, Conservation of mass, Calculating concentration, Balancing equations

C3 Quantitative

Content – Reactions of metals, Acids, alkalis, salts, Electrolysis

C4 Chem Changes



Scan this QR code to take you to the specification we study.



Recommended reading for KS4 Science



Title	Author	Year	Science Topic
Atomic Women	Roseanne Montillo	10	Working Scientifically, Atomic Structure, Energy
Never home alone	Rob Dunn	10	Microbes and disease, Working Scientifically, Living things and their habitats, Human Biology, Cells
Exploring the Elements	Isabel thomas	10	Working Scientifically, Elements, Chemistry, Atomic Structure
What If?	Randall Munroe	11	Working scientifically, Cells and Organisation, Health and drugs, Ecosystems, Genetics and Evolution, Particles, Atoms, Elements and compounds, The Periodic Table, Materials, Earth and the atmosphere, Energy, Motion and Forces, Waves, Electricity, Space Physics, Atomic Structure.
Question Everything - 132 Science questions	Mick O'Hare	10	All Biology, Chemistry and Physics
Does anything eat wasps and 101 other questions	Mick O'Hare	10	All Biology, Chemistry and Physics